



Professional Combo Deck Series

Far more than simply convenient, these all-in-one combo decks are tops in terms of performance, features, and operating versatility!

Spring 2007

Three-in-One Video Recorder/Player – MiniDV, DVD and Hard Disc Drive

SR-DVM700



Playback/Recording Functions and More

- 6-way Recording: 3 Formats in Both Directions with DV/MPEG2 Real-Time Encoding
- Recording and Playback of Various DV, DVD and CD Formats; also to and from the HDD (Refer to the Specifications for further Details)
- Multi-format Capability (DVD)
- Auto Error Correction System reduces Block Noise (MiniDV)
- DVCAM™ Playback (MiniDV)
- IEEE 1394 Interface
- Video Output Terminal with BNC Connector (Composite)
- External Wired Remote Control Code Input Terminal
- Full Auto Repeat disc authoring
- Last Function Memory and Mode Lock
- Totally Suppressed OSD Function

- Produces Professional-looking, High-quality DVD, suited for Professional Photographers, Studios or Broadcasters, Program Creators, and More!

RS-232C Interface with DB9 Connector HDD Editing Functions

- 250GB HDD for High-storage Capacity
- Play List Editing for Dividing Recordings on HDD into Different Sections
- DV Native Format Recording to HDD
- Easy Program Dubbing
- Live Memory Playback Function
- Synchronized Editing System for Direct Dubbing from HDD to DVD makes "Glitch-less" Pauses at Edit Points during Playback

DVD Dubbing Functions

- Bit-rate Optimizer for HDD to DVD Recording

- Selectable Recording Times and Data Rates
- 18 Pre-installed/User-customizable Background Patterns (DVD)
- Extended Recording with High Resolution Pictures (DVD-RAM/DVD-RW/DVD-R VR mode)
- Super MPEG Processors: Pre- and Post-Processors (HDD/DVD)

Playback Formats

- MiniDV: DV Format, DVCAM
- DVD: DVD-R, DVD-RW, DVD-RAM, DVD+R, DVD+RW, CDDA, VCD, CD-R (JPEG/MP3/WMA), CD-RW (JPEG/MP3/WMA); HDD: MPEG2/DV

Recording Formats

- MiniDV: DV Format
- Disc Drive: DVD-R, DVD-RW, DVD-RAM; HDD: MPEG2/DV (250GB)

Compatible Video Sources

- DV IN: Digital Hardware (NLE System with DV Out, Player/Recorder with DV Out); Y/C or Composite IN: Analog Hardware (VHS/S-VHS Deck, VCR with Y/C or Composite Out); MiniDV Cassettes

NLE Compatibility*

- DV Capture from MiniDV and Output to Tape
- Real-time Recording to HDD or DVD-R from NLE
- Compatible with the Leading NLE Software Packages



*Basic Functions Only

Dimensions & Weight

- 17-1/10" (W) x 3-4/5" (H) x 14-3/5" (D)
- 12.9lbs

Refer to the Specifications for Metric Value.

Three-in-One Video Recorder/Player – MiniDV, DVD, Hard Disc Drive

SR-DVM600



Playback/Recording Functions and More

- 6-way Recording: 3 Formats in Both Directions with DV/MPEG2 Real-Time Encoding
- Recording and Playback of Various DV, DVD and CD Formats; also to and from the HDD (Refer to the Specifications for further Details)
- Multi-format Capability (DVD)
- Auto Error Correction System reduces Block Noise (MiniDV)
- DVCAM™ Playback (MiniDV)
- IEEE 1394 Interface
- Video Output Terminal with BNC Connector (Composite)
- External Wired Remote Control Code Input Terminal
- Full Auto Repeat disc authoring
- Last Function Memory and Mode Lock
- Produces Professional-looking, High-quality DVD,

- suited for Professional Photographers, Studios or Broadcasters, Program Creators, and More!

DVD Dubbing Functions

- Bit-rate Optimizer for HDD to DVD Recording
- Selectable Recording Times and Data Rates
- 18 Pre-installed Background Patterns (DVD)
- Extended Recording with High Resolution Pictures (DVD-RAM/DVD-RW/VR mode)
- Super MPEG Processors: Pre- and Post-Processors (HDD/DVD)

HDD Editing Functions

- Play List Editing for Dividing Recordings on HDD into Different Sections
- Easy Program Dubbing
- Live Memory Playback Function
- Synchronized Editing System for Direct Dubbing

- from HDD to DVD makes "Glitch-less" Pauses at Edit Points during Playback
- 40GB HDD for Temporary Storage or Repeated DVD Burning

Playback Formats

- MiniDV: DV Format, DVCAM
- DVD: DVD-R, DVD-RW, DVD-RAM, DVD+R, DVD+RW, CDDA, VCD, CD-R (JPEG/MP3), CD-RW (JPEG/MP3); HDD: MPEG2

Recording Formats

- MiniDV: DV Format
- Disc Drive: DVD-R, DVD-RW, DVD-RAM; HDD: MPEG2 (40GB)

Compatible Video Sources

- DV IN: Digital Hardware (NLE System with DV Out, Player/Recorder with DV Out); Y/C or

- Composite IN: Analog Hardware (VHS/S-VHS Deck, VCR with Y/C or Composite Out); MiniDV Cassettes

NLE Compatibility*

- DV Capture from MiniDV and Output to Tape
- Real-time Recording to HDD or DVD-R from NLE
- Compatible with the Leading NLE Software Packages



*Basic Functions Only

Dimensions & Weight

- 17-1/10" (W) x 3-4/5" (H) x 14-3/5" (D)
- 12.9lbs

Refer to the Specifications for Metric Value.

Two-in-One Video Recorder/Player – DVD and S-VHS

SR-MV55



Playback/Recording Functions and More

- Simultaneous Recording from a single source to VCR and DVD decks
- Plays/Records DVD and S-VHS/VHS/S-VHS ET
- Full Auto Repeat disc authoring
- One-touch Dubbing from S-VHS/VHS to DVD
- Video Output Terminal with BNC Connector
- Live Memory and Live Check Functions
- External Wired Remote Control Code Input Terminal
- Last Function Memory
- Mode Lock
- i-LINK Connection (DV Input)
- Time Counter display
- DVD: Super MPEG Processors: Pre- and Post-Processors

- Closed Captions (DVD) Recording Capability
- Produces Professional-looking, High-quality DVD, suited for Academic/Corporate Program Creators and Professional Videographers

RS-232C External Control Terminal

- Power On/Off, Stop/Pause, Play/Fast forward/Rewind, Title skip next/previous, Set the time, Select deck, Record, Chapter skip next/previous, Direct shuttle speed, Playlist/title/chapter/direct search, Select direct input, Finalize, Menu operation, Disc type detection (CD, DVD, etc.), Remote control code input terminal,

- Check the input and record mode, Sense Functions: Status, To data, CTL data, JVC status, Date data and Clock data
- Play, Stop, Pause, FFWD, REW, Skip forward, Skip reverse, Record
- VCR / DVD Transport Status: Counter, Remain
- Chapter fwd, Chapter rev
- Menu, Enter, left, right, up, and down direction keys
- Transport Status: Remain time
- Direct Playback Speed Control (Fast/Slow)
- Transport Status: Title, Chapter
- Fwd/Rev Field Step
- 30sec. Skip, Instant review (-7sec.)
- Recording Mode Select

- Audio Select, Subtitle Select
- Direct Input selection: L-1 (C), L-1 (S), F-1 (C), F1 (S), DV
- Finalize DVD-R

Playback Formats

- Disc Drive: DVD-R, DVD-RW, DVD-RAM, CDDA, VCD, CD-R (JPEG/MP3), CD-RW (JPEG/MP3)
- Tape: S-VHS, VHS Hi-Fi, S-VHSET (SP Mode only)

Recording Formats

- Disc Drive: DVD-R, DVD-RW, DVD-RAM
- Tape: S-VHS, VHS Hi-Fi, S-VHS ET (SP Mode only)

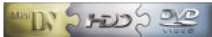
Dimensions & Weight

- 17-3/16" (W) x 3-13/16" (H) x 13-1/2" (D)
- 12.1lbs

Refer to the Specifications for Metric Value.

Three-in-One Video Recorder/Player–
MiniDV, DVD and Hard Disc Drive

SR-DVM700



Playback/Recording Functions and More

- 6-way Recording: 3 Formats in Both Directions with DV/MPEG2 Real-Time Encoding
- Recording and Playback of Various DV, DVD and CD Formats; also to and from the HDD (Refer to the Specifications for further Details)
- Multi-format Capability (DVD)
- Auto Error Correction System reduces Block Noise (MiniDV)
- DVCAM™ Playback (MiniDV)
- IEEE 1394 Interface
- Video Output Terminal with BNC Connector (Composite)
- External Wired Remote Control Code Input Terminal
- Full Auto Repeat disc authoring
- Last Function Memory and Mode Lock
- Totally Suppressed OSD Function

- Produces Professional-looking, High-quality DVD, suited for Professional Photographers, Studios or Broadcasters, Program Creators, and More!

RS-232C Interface with DB9 Connector
HDD Editing Functions

- 250GB HDD for High-storage Capacity
- Play List Editing for Dividing Recordings on HDD into Different Sections
- DV Native Format Recording to HDD
- Easy Program Dubbing
- Live Memory Playback Function
- Synchronized Editing System for Direct Dubbing from HDD to DVD makes “Glitch-less” Pauses at Edit Points during Playback

DVD Dubbing Functions

- Bit-rate Optimizer for HDD to DVD Recording

- Selectable Recording Times and Data Rates
- 18 Pre-installed/User-customizable Background Patterns (DVD)
- Extended Recording with High Resolution Pictures (DVD-RAM/DVD-RW/DVD-R VR mode)
- Super MPEG Processors: Pre- and Post-Processors (HDD/DVD)

Playback Formats

- MiniDV: DV Format, DVCAM
- DVD: DVD-R, DVD-RW, DVD-RAM, DVD+R, DVD+RW, CDDA, VCD, CD-R (JPEG/MP3/WMA), CD-RW (JPEG/MP3/WMA); HDD: MPEG2/DV

Recording Formats

- MiniDV: DV Format
- Disc Drive: DVD-R, DVD-RW, DVD-RAM; HDD: MPEG2/DV (250GB)

Compatible Video Sources

- DV IN: Digital Hardware (NLE System with DV Out, Player/Recorder with DV Out); Y/C or Composite IN: Analog Hardware (VHS/S-VHS Deck, VCR with YC or Composite Out); MiniDV Cassettes

NLE Compatibility*

- DV Capture from MiniDV and Output to Tape
- Real-time Recording to HDD or DVD-R from NLE
- Compatible with the Leading NLE Software Packages



*Basic Functions Only

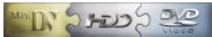
Dimensions & Weight

- 17-1/10" (W) x 3-4/5" (H) x 14-3/5" (D)
- 12.9lbs

Refer to the Specifications for Metric Value.

Three-in-One Video Recorder/Player–
MiniDV, DVD, Hard Disc Drive

SR-DVM600



Playback/Recording Functions and More

- 6-way Recording: 3 Formats in Both Directions with DV/MPEG2 Real-Time Encoding
- Recording and Playback of Various DV, DVD and CD Formats; also to and from the HDD (Refer to the Specifications for further Details)
- Multi-format Capability (DVD)
- Auto Error Correction System reduces Block Noise (MiniDV)
- DVCAM™ Playback (MiniDV)
- IEEE 1394 Interface
- Video Output Terminal with BNC Connector (Composite)
- External Wired Remote Control Code Input Terminal
- Full Auto Repeat disc authoring
- Last Function Memory and Mode Lock
- Produces Professional-looking, High-quality DVD,

suited for Professional Photographers, Studios or Broadcasters, Program Creators, and More!

DVD Dubbing Functions

- Bit-rate Optimizer for HDD to DVD Recording
- Selectable Recording Times and Data Rates
- 18 Pre-installed Background Patterns (DVD)
- Extended Recording with High Resolution Pictures (DVD-RAM/DVD-RW/VR mode)
- Super MPEG Processors: Pre- and Post-Processors (HDD/DVD)

HDD Editing Functions

- Play List Editing for Dividing Recordings on HDD into Different Sections
- Easy Program Dubbing
- Live Memory Playback Function
- Synchronized Editing System for Direct Dubbing

from HDD to DVD makes “Glitch-less” Pauses at Edit Points during Playback

- 40GB HDD for Temporary Storage or Repeated DVD Burning

Playback Formats

- MiniDV: DV Format, DVCAM
- DVD: DVD-R, DVD-RW, DVD-RAM, DVD+R, DVD+RW, CDDA, VCD, CD-R (JPEG/MP3), CD-RW (JPEG/MP3); HDD: MPEG2

Recording Formats

- MiniDV: DV Format
- Disc Drive: DVD-R, DVD-RW, DVD-RAM; HDD: MPEG2 (40GB)

Compatible Video Sources

- DV IN: Digital Hardware (NLE System with DV Out, Player/Recorder with DV Out); Y/C or

Composite IN: Analog Hardware (VHS/S-VHS Deck, VCR with YC or Composite Out); MiniDV Cassettes

NLE Compatibility*

- DV Capture from MiniDV and Output to Tape
- Real-time Recording to HDD or DVD-R from NLE
- Compatible with the Leading NLE Software Packages



*Basic Functions Only

Dimensions & Weight

- 17-1/10" (W) x 3-4/5" (H) x 14-3/5" (D)
- 12.9lbs

Refer to the Specifications for Metric Value.

Two-in-One Video Recorder/Player–
DVD and S-VHS

SR-MV55



Playback/Recording Functions and More

- Simultaneous Recording from a single source to VCR and DVD decks
- Plays/Records DVD and S-VHS/VHS to S-VHS ET
- Full Auto Repeat disc authoring
- One-touch Dubbing from S-VHS/VHS to DVD
- Video Output Terminal with BNC Connector
- Live Memory and Live Check Functions
- External Wired Remote Control Code Input Terminal
- Last Function Memory
- Mode Lock
- i-LINK Connection (DV Input)
- Time Counter display
- DVD: Super MPEG Processors: Pre- and Post-Processors

- Closed Captions (DVD) Recording Capability
- Produces Professional-looking, High-quality DVD, suited for Academic/Corporate Program Creators and Professional Videographers

RS-232C External Control Terminal

- Power On/Off, Stop/Pause, Play/Fast forward/Rewind, Title skip next/previous, Set the time, Select deck, Record, Chapter skip next/previous, Direct shuttle speed, Playlist/title/chapter/direct search, Select direct input, Finalize, Menu operation, Disc type detection (CD, DVD, etc.), Remote control code input terminal,

- Check the input and record mode, Sense Functions: Status, To data, CTL data, JVC status, Date data and Clock data
- Play, Stop, Pause, FFWD, REW, Skip forward, Skip reverse, Record
- VCR / DVD Transport Status: Counter, Remain
- Chapter fwd, Chapter rev
- Menu, Enter, left, right, up, and down direction keys
- Transport Status: Remain time
- Direct Playback Speed Control (Fast/Slow)
- Transport Status: Title, Chapter
- Fwd/Rev Field Step
- 30sec. Skip, Instant review (-7sec.)
- Recording Mode Select

- Audio Select, Subtitle Select
- Direct Input selection: L-1 (C), L-1 (S), F-1 (C), F1 (S), DV
- Finalize DVD-R

Playback Formats

- Disc Drive: DVD-R, DVD-RW, DVD-RAM, CDDA, VCD, CD-R (JPEG/MP3), CD-RW (JPEG/MP3)
- Tape: S-VHS, VHS Hi-Fi, S-VHSET (SP Mode only)

Recording Formats

- Disc Drive: DVD-R, DVD-RW, DVD-RAM
- Tape: S-VHS, VHS Hi-Fi, S-VHS ET (SP Mode only)

Dimensions & Weight

- 17-3/16" (W) x 3-13/16" (H) x 13-1/2" (D)
- 12.1lbs

Refer to the Specifications for Metric Value.

Two-in-One Video Recorder/Player–
DVD and S-VHS

SR-MV45



Playback/Recording Functions and More

- Simultaneous Recording from a single source to VCR and DVD decks
- Plays/Records DVD and S-VHS/VHS to S-VHSET
- Full Auto Repeat disc authoring
- One-touch Dubbing from S-VHS/VHS to DVD
- Video Output Terminal with BNC Connector
- Live Memory and Live Check Functions
- External Wired Remote Control Code Input Terminal
- Last Function Memory
- Mode Lock
- i-LINK Connection (DV Input)
- Time Counter display
- DVD: Super MPEG Processors: Pre- and Post-Processors

- Closed Captions (DVD) Recording Capability
- Produces Professional-looking, High-quality DVD, suited for Academic/Corporate Program Creators and Professional Videographers

- Play, Stop, Pause, FFWD, REW, Skip forward, Skip reverse, Record
- VCR / DVD Transport Status: Counter, Remain
- Chapter fwd, Chapter rev
- Menu, Enter, left, right, up, and down direction keys
- Transport Status: Remain time
- Direct Playback Speed Control (Fast/Slow)
- Transport Status: Title, Chapter
- Fwd/Rev Field Step

- 30sec. Skip, Instant review (-7sec.)
- Recording Mode Select
- Audio Select, Subtitle Select
- Direct Input selection: L-1 (C), L-1 (S), F-1 (C), F1 (S), DV
- Finalize DVD-R

Playback Formats

- Disc Drive: DVD-R, DVD-RW, DVD-RAM, CDDA, VCD, CD-R (JPEG/MP3), CD-RW (JPEG/MP3)
- Tape: S-VHS, VHS Hi-Fi, S-VHSET (SP Mode only)

Recording Formats

- Disc Drive: DVD-R, DVD-RW, DVD-RAM
- Tape: S-VHS, VHS Hi-Fi, S-VHS ET (SP Mode only)

Dimensions & Weight

- 17-3/16" (W) x 3-13/16" (H) x 13-1/2" (D)
- 12.1lbs

Refer to the Specifications for Metric Value.

Combo Deck			SR-DVM700		SR-DVM600		SR-MV55		SR-MV45	
MiniDV										
Format			DV format Rec / Play, DVCAM (Playback only) with Auto Error Correction System				—			
Cassette			MiniDV cassette				—			
Maximum Recording Time	SP		80 min. with M-DV80ME cassette				—			
	LP		120 min. with M-DV80ME cassette				—			
Audio Recording System			PCM 48 kHz, 16-bit (2-ch)/ 32kHz, 12-bit (4-ch)				—			
DVD/CD										
Format	DVD-R (VR mode, Video mode)		Rec / Play							
	DVD-RW (VR mode, Video mode)		Rec / Play							
	DVD+R		Play				—			
	DVD+RW		Play				—			
	DVD-RAM		Rec / Play							
	CDDA		Play							
	VCD		Play: MPEG1							
	CD-R		Play: JPEG/MP3/WMA							
CD-RW		Play: JPEG/MP3/WMA								
Recording Time : (4.7 GB DVD)			Normal bit rate / Approx. duration							
	XP		Approx. 10 Mbps / 1 hr.							
	SP		Approx. 5 Mbps / 2 hrs.							
	LP		Approx. 2.5 Mbps / 4 hrs.							
	EP		Approx. 1.6 Mbps / 6 hrs.							
FR60-480		Variable* / 1-8 hrs.								
Audio Recording System			Dolby Digital 2ch, Linear PCM (XP mode only)							
Video Recording Compression System			MPEG2 (CBR/VBR)							
Hard Disk Drive										
Capacity			250 GB		40 GB		—			
Format			MPEG2/DV		MPEG2		—			
Recording Time			Max 473 hrs.		Max 71 hrs.		—			
			Normal bit rate	Approx. duration	Normal bit rate	Approx. duration	—			
		DV	Approx. 25Mbps	18 hrs.	—	—	—			
		XP	Approx. 10Mbps	53 hrs.	Approx. 10Mbps	8 hrs.	—			
		SP	Approx. 5Mbps	109 hrs.	Approx. 5Mbps	16 hrs.	—			
		LP	Approx. 2.5Mbps	218 hrs.	Approx. 2.5Mbps	33 hrs.	—			
		EP	Approx. 1.6Mbps	328 hrs.	Approx. 1.6Mbps	49 hrs.	—			
		FR60-480	Variable*	53-473 hrs.	Variable*	8-71 hrs.	—			
Audio Recording System			Dolby Digital 2ch, Linear PCM (XP mode only), PCM 48kHz, 16-bit (2ch)/32kHz, 12-bit (4ch) (DV mode only)				Dolby Digital 2ch, Linear PCM (XP mode only)		—	
S-VHS										
Format			—				S-VHS, VHS Hi-Fi, S-VHS ET (SP mode only)			
Signal System			—				NTSC color signal and EIA monochrome signal, 525 lines/60 fields			
Recording System			—				DA4 (Double Azimuth) head helical scan system			
Maximum Recording Time	SP		—				210 min. with ST-210 video cassette			
	EP		—				630 min. with ST-210 video cassette			
Horizontal Resolution			—				230 lines (VHS),400 lines (S-VHS)			
Frequency Range			—				20 Hz to 20,000 Hz (Hi-Fi audio)			
GENERAL										
Inputs/Outputs			In/Out	Location	In/Out	Location	In/Out	Location	In/Out	Location
	Composite Video Output (via BNC) x 1		MiniDV, DVD, HDD	rear	MiniDV, DVD, HDD	rear	DVD, S-VHS	rear	DVD, S-VHS	rear
	DV In/Out (i.Link) x 1 (4-pin, S400)	Input	MiniDV DVD, HDD	front	MiniDV DVD, HDD	front	DVD, S-VHS	front	DVD, S-VHS	front
		Output	MiniDV, HDD	front	MiniDV	front	—		—	
	S-Y/C Input x 2		MiniDV, DVD, HDD	front/rear	MiniDV, DVD, HDD	front/rear	DVD, S-VHS	front/rear	DVD, S-VHS	front/rear
	S-Y/C Output x 2		MiniDV, DVD, HDD	rear x 1	MiniDV, DVD, HDD	rear x 1	DVD, S-VHS	rear x 1	DVD, S-VHS	rear x 1
			DVD, HDD	rear x 1	DVD, HDD	rear x 1	DVD	rear x 1	DVD	rear x 1
	Video/Audio L, R (via RCA) x 4	Input x 2	MiniDV, DVD, HDD	front/rear	MiniDV, DVD, HDD	front/rear	DVD, S-VHS	front/rear	DVD, S-VHS	front/rear
			MiniDV DVD, HDD	rear x 1	MiniDV DVD, HDD	rear x 1	DVD	rear x 1	DVD	rear x 1
		Output x 2	DVD, HDD	rear x 1	DVD, HDD	rear x 1	DVD, S-VHS (Only Audio L,R)	rear x 1	DVD, S-VHS (Only Audio L,R)	rear x 1
	Y-PB-PR Output (via RCA) x 1		DVD, HDD	rear	DVD, HDD	rear	DVD	rear	DVD	rear
	Optical Digital Audio Out x 1		DVD, HDD	rear	DVD, HDD	rear	DVD	rear	DVD	rear
	Coaxial Digital Audio Out x 1		DVD, HDD	rear	DVD, HDD	rear	DVD	rear	DVD	rear
	External Wired Remote Control Code Input Terminal x 1		MiniDV, DVD, HDD	rear	MiniDV, DVD, HDD	rear	DVD, S-VHS	rear	DVD, S-VHS	rear
RS-232C (D-Sub 9-pin) x 1		MiniDV, DVD, HDD	rear	—		DVD, S-VHS	rear	—		
Power Requirements			AC 120V, 60Hz							
Power Consumption	Power On		45W				52W			
	Power Off		2.5W				2.7W			
Dimensions (W x H x D)			17-1/10" x 3-4/5" x 14-3/5" (435 x 96 x 372 mm)				17-3/16" x 3-13/16" x 13-1/2" (435 x 96 x 343 mm)			
Weight			12.9 lbs (5.8 kg)				12.1 lbs (5.5 kg)			

* The amount varies depending on the selected time.

- 17-inch SXGA LCD Monitor
(5:4 1280 x 1024 pixels)
- 15-inch XGA LCD Monitor
(5:4 1024 x 768 pixels)

LM-170

LM-150



Precise picture quality

- Color Transient Improvement (CTI)
- Luminance Transient Improvement (LTI)

High reliability

- Designed for 24/7 operation

Professional features

- BNC connectors for VIDEO
- Rack mount capability
- 16:9/4:3 selectable aspect ratio

Easy installation

- VESA 100 mount
- Screw holes for installation
- Built-in power supply

- 21-inch (20"V) Flat CRT
Color Monitor

TM-21A2U



- 2 Video Inputs, 1 Video Output terminal (RCA)
- 2 Audio Inputs (mono) 1 Audio output (mono) terminal (RCA)
- NTSC/PAL/SECAM Compatibility
- White balance (Cool/Normal/Warm)
- Auto VNR (Video Noise Reduction)
- Front Panel Control Lock
- Remote Control Unit
- On Screen Display

- 14-inch (13"V) Color
Video Monitor

TM-A13SU



- NTSC/PAL Compatibility
- CPU (Central Processing Unit) picture control
- Built-in loudspeaker
- Mounting hole for rack installation
- Composite and Y/C input terminals
- Comb filter

		LP	Approx. 2.5 Mbps / 4 hrs.									
		EP	Approx. 1.6 Mbps / 6 hrs.									
		FR60-480	Variable* / 1-8 hrs.									
Audio Recording System			Dolby Digital 2ch, Linear PCM (XP mode only)									
Video Recording Compression System			MPEG2 (CBR/VBR)									
Hard Disk Drive												
Capacity			250 GB		40 GB		—					
Format			MPEG2/DV		MPEG2		—					
Recording Time			Max 473 hrs.		Max 71 hrs.		—					
			Normal bit rate	Approx. duration	Normal bit rate	Approx. duration	—					
			DV	Approx. 25Mbps	18 hrs.	—	—	—				
			XP	Approx. 10Mbps	53 hrs.	Approx. 10Mbps	8 hrs.	—				
			SP	Approx. 5 Mbps	109 hrs.	Approx. 5Mbps	16 hrs.	—				
			LP	Approx. 2.5 Mbps	218 hrs.	Approx. 2.5 Mbps	33 hrs.	—				
			EP	Approx. 1.6 Mbps	328 hrs.	Approx. 1.6Mbps	49 hrs.	—				
			FR60-480	Variable*	53-473 hrs.	Variable*	8-71 hrs.	—				
Audio Recording System			Dolby Digital 2ch, Linear PCM (XP mode only), PCM 48kHz, 16-bit (2ch) / 32kHz, 12-bit (4ch) (DV mode only)		Dolby Digital 2ch, Linear PCM (XP mode only)		—					
S-VHS												
Format			—				S-VHS, VHS Hi-Fi, S-VHS ET (SP mode only)					
Signal System			—				NTSC color signal and EIA monochrome signal, 525 lines/60 fields					
Recording System			—				DA4 (Double Azimuth) head helical scan system					
Maximum Recording Time	SP	—				210 min. with ST-210 video cassette						
	EP	—				630 min. with ST-210 video cassette						
Horizontal Resolution			—				230 lines (VHS), 400 lines (S-VHS)					
Frequency Range			—				20 Hz to 20,000 Hz (Hi-Fi audio)					
GENERAL												
Inputs/Outputs			In/Out	Location	In/Out	Location	In/Out	Location	In/Out	Location		
			Composite Video Output (via BNC) x 1		MiniDV, DVD, HDD	rear	MiniDV, DVD, HDD	rear	DVD, S-VHS	rear	DVD, S-VHS	rear
			DV In/Out (i.Link) x 1 (4-pin, S400)	Input	MiniDV DVD, HDD	front	MiniDV DVD, HDD	front	DVD, S-VHS	front	DVD, S-VHS	front
				Output	MiniDV, HDD	front	MiniDV	front	—		—	
			S-Y/C Input x 2		MiniDV, DVD, HDD	front/rear	MiniDV, DVD, HDD	front/rear	DVD, S-VHS	front/rear	DVD, S-VHS	front/rear
			S-Y/C Output x 2		MiniDV, DVD, HDD	rear x 1	MiniDV, DVD, HDD	rear x 1	DVD, S-VHS	rear x 1	DVD, S-VHS	rear x 1
					DVD, HDD	rear x 1	DVD, HDD	rear x 1	DVD	rear x 1	DVD	rear x 1
			Video/Audio L, R (via RCA) x 4	Input x 2	MiniDV, DVD, HDD	front/rear	MiniDV, DVD, HDD	front/rear	DVD, S-VHS	front/rear	DVD, S-VHS	front/rear
				Output x 2	MiniDV DVD, HDD	rear x 1	MiniDV DVD, HDD	rear x 1	DVD	rear x 1	DVD	rear x 1
					DVD, HDD	rear x 1	DVD, HDD	rear x 1	DVD, S-VHS (Only Audio L,R)	rear x 1	DVD, S-VHS (Only Audio L,R)	rear x 1
			Y-Pb-Pr Output (via RCA) x 1		DVD, HDD	rear	DVD, HDD	rear	DVD	rear	DVD	rear
			Optical Digital Audio Out x 1		DVD, HDD	rear	DVD, HDD	rear	DVD	rear	DVD	rear
			Coaxial Digital Audio Out x 1		DVD, HDD	rear	DVD, HDD	rear	DVD	rear	DVD	rear
External Wired Remote Control Code Input Terminal x 1		MiniDV, DVD, HDD	rear	MiniDV, DVD, HDD	rear	DVD, S-VHS	rear	DVD, S-VHS	rear			
RS-232C (D-Sub 9-pin) x 1		MiniDV, DVD, HDD	rear	—		DVD, S-VHS	rear	—				
Power Requirements			AC 120V, 60Hz									
Power Consumption	Power On	45W				52W						
	Power Off	2.5W				2.7W						
Dimensions (W x H x D)			17-1/10" x 3-4/5" x 14-3/5" (435 x 96 x 372 mm)				17-3/16" x 3-13/16" x 13-1/2" (435 x 96 x 343 mm)					
Weight			12.9 lbs (5.8 kg)				12.1 lbs (5.5 kg)					

* The amount varies depending on the selected time.

Optional Monitors

■ 17-inch SXGA LCD Monitor (5:4 1280 x 1024 pixels) | **LM-170**

■ 15-inch XGA LCD Monitor (5:4 1024 x 768 pixels) | **LM-150**



Precise picture quality

- Color Transient Improvement (CTI)
- Luminance Transient Improvement (LTI)

High reliability

- Designed for 24/7 operation

Professional features

- BNC connectors for VIDEO
- Rack mount capability
- 16:9/4:3 selectable aspect ratio

Easy installation

- VESA 100 mount
- Screw holes for installation
- Built-in power supply

■ 21-inch (20"V) Flat CRT Color Monitor | **TM-21A2U**



- 2 Video Inputs, 1 Video Output terminal (RCA)
- 2 Audio Inputs (mono) 1 Audio output (mono) terminal (RCA)
- NTSC/PAL/SECAM Compatibility
- White balance (Cool/Normal/Warm)
- Auto VNR (Video Noise Reduction)
- Front Panel Control Lock
- Remote Control Unit
- On Screen Display

■ 14-inch (13"V) Color Video Monitor | **TM-A13SU**



- NTSC/PAL Compatibility
- CPU (Central Processing Unit) picture control
- Built-in loudspeaker
- Mounting hole for rack installation
- Composite and Y/C input terminals
- Comb filter



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